

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In patent application of

Applicant: **James R. Larus et al.**
Serial No.: **10/659,221**
Filed: **September 10, 2003**
For: **CONTRACTS AND FUTURES FOR ASYNCHRONOUS PROGRAMMING LANGUAGE**
Art Unit: **2142**
Examiner: **Unknown**

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

1. Pursuant to 37 C.F.R. §1.97 and §1.98, and in compliance with 37 C.F.R. §1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications; (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. §120; and/or (c) U.S. Patent(s) and published applications(s).

Serial No.: _____
Filing Date: _____

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- (a) ☐ Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- (b) ☐ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. §1.97(b) this Statement is being filed (one must be checked):

- (a) ☐ Within 3 months of the filing date or date of entry into the National Stage.
- (b) ☒ Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 50-1063 for consideration of this Statement.
- (c) ☐ Before the mailing date of an Office Action after the filing of a request for continued examination under 1.114.

- (d) ☐ After the period set forth in 37 C.F.R. §1.97(b) but before the mailing date of either a final action or a notice of allowance.
- (1) ☐ The required certification is given below, or
- (2) ☐ Regarding the fee set forth in 37 C.F.R. §1.17(p) for consideration of this Statement :
- (i) ☐ Enclosed is a check covering the fee;
- (ii) ☐ Charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 50-1063; or
- (iii) ☐ Enclosed is a credit card payment form covering the fee.
- (e) ☐ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below. Regarding the fee set forth in 37 C.F.R. §1.17(i)(1) for consideration of this Statement:
- (1) ☐ Enclosed is a check covering the fee;
- (2) ☐ Charge the fee set forth in 37 C.F.R. §1.17(i)(1) to Deposit Account No. 50-1063; or
- (3) ☐ Enclosed is a credit card payment form covering the fee.


4. Certification (if applicable)

- (a) ☐ The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
- (b) ☐ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1063.

Respectfully Submitted,

By



Himanshu S. Amin
Reg. No. 40,894

Amin & Turocy, LLP
24TH Floor, National City Center
1900 East 9th Street
Cleveland, Ohio 44114
(216) 696-8730

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1-5-06
Date


Himanshu S. Amin



PTO/SB/08b (08-03)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/659,221
Filing Date	September 10, 2003
First Named Inventor	James R. Larus
Art Unit	2142
Examiner Name	Unknown
Attorney Docket Number	MS303259.02/MSFTP447USA

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		TORBEN AMTOFT, FLEMMING NIELSON, and HANNE RIIS NIELSON, Type and Effect Systems, 1999, 253 pages, Imperial College Press.	
		THOMAS BALL and SRIRAM K. RAJAMANI, The SLAM Project: Debugging System Software via Static Analysis, Principles of Programming Languages, January 16-18, 2002, 3 pages, ACM, Portland, OR, USA.	
		NICK BENTON, LUCA CARDELLI, and CEDRIC FOURNET, Modern Concurrency Abstractions for C#, Workshop on Foundations of Object-Oriented Languages, September 2004, pp. 769-804, ACM Transactions on Programming Languages and Systems, Vol. 26, No. 5.	
		LARS BIRKEDAL, MADS TOFTE, and MAGNUS VEJLSTRUP, From Region Inference to von Nuemann Machines via Region Representation Inference, Principles of Programming Languages, 1996, pp. 171-183, ACM, St. Petersburg, FLA, USA.	
		SAGAR CHAKI, SRIRAM K. RAJAMANI, and JAKOB REHOF, Types as Models: Model Checking Message-Passing Programs, Principles of Programming Languages, January 16-18, 2002, pp. 45-57, ACM, Portland, OR, USA.	
		ARINDAM CHAKRABARTI, LUCA DE ALFARO, THOMAS A. HENZINGER, MARCIN JURDZINSKI, and FREDDY Y.C. MANG, Interface Compatibility Checking for Software Modules, Computer-Aided Verification, 2002, Springer-Verlag, 14 pages.	
		YOUNG-RI CHOI, AMIT GARG, SIDDHARTHA RAI, JAYADEV MISRA, and HARRICK VIN, Orchestrating Computations on the World-wide Web, Proceedings of the Euro-Par Conference on Parallel Processing. 2002, 20 pages.	
		MANUVIR DAS, SORIN LERNER, and MARK SEIGLE, ESP: Path-Sensitive Program Verification in Polynomial Time, Programming Language Design and Implementation, June 17-19, 2002, ACM, Berlin, Germany, 12 pages.	
		ROBERT DELINE and MANUEL FAHNDRICH, Enforcing High-Level Protocols in Low-Level Software, Programming Language Design and Implementation, 2001, ACM, Snowbird, Utah, 11 pages.	
		EMCA Standard EMCA-334: C# Language Specification, http://www.ecma-international.org/publications/files/ECMA-ST/Ecma-334.pdf , December 2001, 523 pages.	

Examiner
Signature

/Jyoti Dave/

Date
Considered

12/04/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.D./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number	10/659,221
Filing Date	September 10, 2003
First Named Inventor	James R. Larus
Art Unit	2142
Examiner Name	Unknown
Attorney Docket Number	MS303259.02/MSFTP447USA

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		CORMAC FLANAGAN, K. RUSTAN M. LEINO, MARK LILLIBRIDGE, GREG NELSON, JAMES B. SAXE, RAYMIE STATA, Extended Static Checking for Java, Programming Language Design and Implementation, June 17-19, 2002, ACM, Berlin, Germany.	
		CEDRIC FOURNET and GEORGES GONTHIER, The Reflexive CHAM and the Join-Calculus, Principles of Programming Languages, 1996, pp. 372-385, ACM, St. Petersburg, FLA, USA.	
		LANCE HAMMOND, BASEM A. NAYFEH, and KUNLE OLUKOTUN, A Single-Chip Multiprocessor, Computer, September 1997, pp. 79-85, Vol. 30, No. 9, IEEE Computer Society.	
		JOHN HATCLIFF and MATTHEW DWYER, Using the Bandera Tool Set to Model-check Properties of Concurrent Java Software, Concurrency Theory, 2001, pp. 39-58, Springer-Verlag.	
		C.A.R. Hoare, Communicating Sequential Processes, 1985, 238 Pages, Prentice Hall International.	
		GERARD J. HOLZMANN, The Model Checker SPIN, IEEE Transactions on Software Engineering, May 1997, pp. 279-295, Vol. 23, No. 5.	
		ROBERT H. HALSTEAD, JR., Multilisp: A Language for Concurrent Symbolic Computation, ACM Transactions on Programming Languages and Systems, October 1985, pp. 501-538, Vol. 7, No. 4.	
		JACK L. LO, SUSAN J. EGGERS, JOEL S. EMER, HENRY M. LEVY, REBECCA L. STAMM, and DEAN M. TULLSEN, Converting Thread-Level Parallelism to Instruction-Level Parallelism via Simultaneous Multithreading, ACM Transactions on Computer Systems, August 1997, pp. 322-354, Vol. 15, No. 3.	
		ROBIN MILNER, Communicating and Mobile Systems: the pi-calculus, 161 pages, 1999, Cambridge University Press.	
		HANNE RIIS NIELSON and FLEMMING NIELSON, Higher-Order Concurrent Programs with Finite Communication Topology, Principles of Programming Languages, January 1994, pp. 84-97, ACM, Portland, OR, USA.	

Examiner
Signature

/Jyoti Dave/

Date
Considered

12/04/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.D./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

3

of

3

Complete if Known

Application Number	10/659,221
Filing Date	September 10, 2003
First Named Inventor	James R. Larus
Art Unit	2142
Examiner Name	Unknown
Attorney Docket Number	MS303259.02/MSFTP447USA

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SRIRAM K. RAJAMANI and JAKOB REHOF, Conformance Checking for Models of Asynchronous Message Passing Software, Computer-Aided Verification, 2002, Springer-Verlag, 13 pages.	
		JOHN H. REPPY, Concurrent Programming in ML, 1999, 308 pages, Cambridge University Press.	
		MADS TOFTE and JEAN-PIERRE TALPIN, Implementation of the Typed Call-by-Value lambda-calculus using a Stack of Regions, Principles of Programming Languages, January 1994, pp. 188-201, ACM, Portland, OR, USA.	
		MADS TOFTE and JEAN-PIERRE TALPIN, Region-Based Memory Management, Information and Computation, 1997, pp. 109-176, Vol. 132, No. 2.	

Examiner
Signature

/Jyoti Dave/

Date
Considered

12/04/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.D./